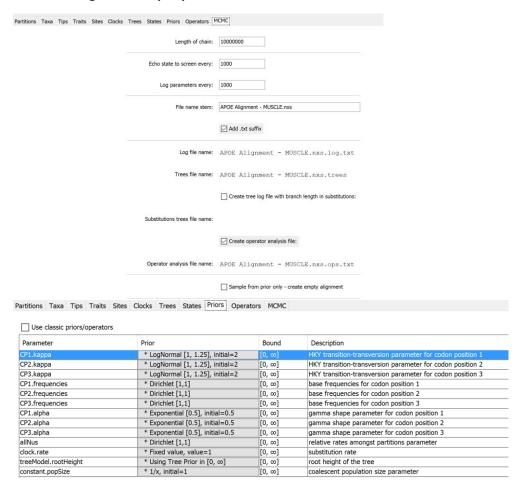
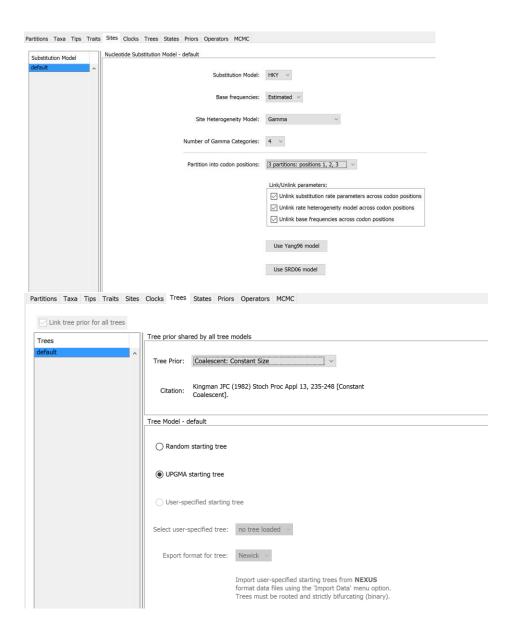
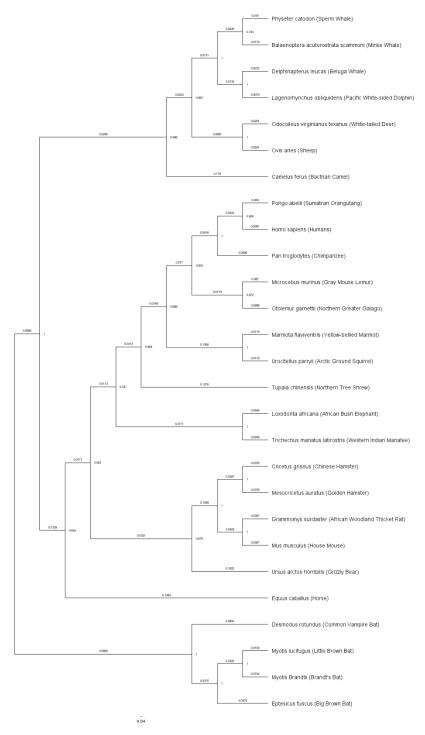
My Model of Character Evolution and Site Variance determined by MEGA was HKY + G.

The following are the input parameters that I had for BEAUti:





My final Bayesian Tree edited using FigTree:



Included in my Bayesian Tree are raw branch lengths that are scaled to their length (located above each branch) and posterior node probability (located to the right of each node). My Bayesian Tree compared to my ML and MP trees is actually pretty similar. The only difference that I could find was that the placement of Ursus arctos horribilis in my Bayesian tree was placed in a clade with Cricetulus griseus, etc. as opposed to being a polytomy in both my MP and ML trees. This also leads to a

difference in the grouping of the Cricetulus griseus clade being further removed from the Marmota flaviventris clade. Much like my MP and ML trees, it differs pretty significantly from my NJ tree in the amount of polytomies present in the NJ tree compared to the Bayesian tree. Considering that my Bayesian tree is most similar to MP and ML, I think that is safe to consider either my MP or my Bayesian tree as my "best" tree to base my observations on. I rooted my Bayesian tree using my four bat species located at the bottom.